

WHAT IS CLAIMED IS

1. A personal digital assistant having a display responsive to a touch

operation comprising:

a control switch which can be turned and pushed-in;

an operation signal in response to the turning or pushing operation of said

control switch;

a judging means which judges whether said touch operation to said display

is done or said control switch is operated;

a display control means which performs a first page transition control for

transitioning an operation page displayed on said display in accordance with said

touch operation when said judging means judges that said touch operation is done to

said display, or performs a second page transition control for transitioning said

operation page displayed on said display part in accordance with said operation

signal.

2. The personal digital assistant according to claim 1, wherein a

plurality of items are displayed on said operation page as selection items, and said display control means performs the selection of an item from said selection items in accordance with the operation signal when said control switch is turned and said second page transition control whereby the page is transitioned to said operation page pertinent to the item selected in accordance with the operation signal when said control switch is pushed.

3. The personal digital assistant according to claim 1, wherein said display control means allows a cursor to move on said operation page in the direction corresponding to the turning direction of said control switch.

4. The personal digital assistant according to claim 2, wherein said display control means allows a cursor to move on said operation page in the direction corresponding to the turning direction of said control switch.

5. The personal digital assistant according to claim 2, wherein said display control means performs the selection of an item from the selection items among the items displayed in said operation page as selection items when said

control switch is turned and said second page transition control is performed when said control switch is pushed whereby said page is transitioned to said operation page pertinent to said selected item.

6. The personal digital assistant according to claim 1, wherein said display control means allows said cursor to move on said operation page in accordance with said turning operation of said control switch and said second page transition control changes to said page determined by the position of said cursor by pushing said control switch.

7. The personal digital assistant according to claim 1, wherein said control switch is supported on a shaft extending in a direction so that said control switch is rotatable in a certain range of angle from a reference position of rotation and can be pushed in to a direction perpendicular to the direction of rotation at said reference position of rotation.

8. The personal digital assistant according to claim 7, wherein said display part is positioned on a front face of an encasement of said personal digital

assistant, and said control switch is located on a side of said encasement of said personal digital assistant such that a shaft for supporting said control switch extends in a direction toward a rear face of said encasement of said personal digital assistant.

9. The personal digital assistant according to claim 1, wherein an escape switch is provided on said side of the encasement of the personal digital assistant, and when said escape switch is pushed said display control means carries out page return from said operation page after transition to said page before transition.

10. A personal digital assistant comprising:

- a touch panel;
- an operation page being displayed on the touch panel;
- a page on the touch panel being transitioned by a touch operation to said operation page;
- a control switch which can be turned and pushed in to transmit an operation signal

a judging means for judging which of said touch operation to said display part or said control switch operation is done and;

a display control means which changes to said first operation page when said judging means judges that said display part is touched, and which changes to the second operation page when receiving said control switch operation signal.

11. A personal digital assistant comprising:

a touch panel;

an operation page which is displayed on said touch panel when said touch panel is touched;

an input operation part, in which a variety of operation pages can be selectively displayed on the touch panel;

a control switch which is rotatable in a certain range of angle and can be pushed in;

a judging means for judging which of said touch operation to said display part or the control switch operation is done; and

a display control means which changes to said first operation page when
said judging means judges that said display part is touched and which changes to
said second operation page when receiving said control switch operation signal.

12. A personal digital assistant comprising:

a touch panel;

an input operation part, in which a variety of operation pages each having a
plurality of selection items can be selectively displayed on said touch panel;

an operation page on the touch panel displayed on the touch panel by
touching to the position of an arbitrary item among the selection items displayed on
the touch panel or by selecting an arbitrary item from the selection items conducted
by the operation in said input operation part;

a control switch which is rotatable in a certain range of angle and can be
pushed in;

a selection item determining means for selecting an arbitrary item from said
selection items displayed on said touch panel by turning and pushing in said control

switch;

a judging means for judging which of said touch operation to said display part or said control switch operation is done, and;

a display control means which changes to said first operation page having the arrangement of selection items suited for the touch operation when said judging means judges that the touch operation is done to the touch panel and changes to said second operation page having the arrangement of selection items suited for the control switch operation when said judging means judges that the operation of said control switch is done.

13. The personal digital assistant according to claim 12, wherein said display control means allows said selection items to be arranged in a plurality of columns in said first operation page and to be arranged in one column in said second operation page.

14. A personal digital assistant comprising:

a touch panel;

an input operation part, in which a variety of operation pages each having a plurality of selection items can be selectively displayed on said touch panel;

an operation page on the touch panel selected by touching an arbitrary item among a selection items in said page displayed on said touch panel or selecting an arbitrary item from the selection items conducted by the operation of said input operation part;

a control switch which is rotatable in a certain range of angle and can be pushed in;

a selection item determining means for selecting an arbitrary item from the selection items displayed on the touch panel by turning and pushing in the control switch;

a judging means for judging which of said touch operation to said display or said control switch operation is done, and;

a display control means which changes to said first operation page in which are arranged detailed selection items suited for the touch operation when said

judging means judges that the touch operation is done to the touch panel and which changes to said second operation when said judging means judges that the operation of said control switch is done.

15. A personal digital assistant comprising:

a touch panel;

an input operation part, in which a variety of operation pages each having a plurality of selection items can be selectively displayed on said touch panel;

an operation page on said touch panel selected by touching said arbitrary item among an selection items displayed on said touch panel or by selecting said arbitrary item from said selection items conducted by the operation in said input operation part;

a control switch which is rotatable in a certain range of angle and can be pushed in;

a selection item determining means for selecting an arbitrary item from said selection items displayed on the touch panel by said control switch;

a judging means for judging which of the touch operation to said display part or the control switch operation is done, and;

a display control means which changes immediately to said first operation page of a layer under the operation page under display when said judging means judges that said touch operation is done to the touch panel and which changes first to said second operation page of said layer under the operation page under display and then to said first operation page when said judging means judges that the operation of said control switch is done .

16. A personal digital assistant comprising:

a touch panel

an input operation part, in which a variety of operation pages each having a plurality of selection items can be selectively displayed on said touch panel;

an operation page on the touch panel selected by touching the touch panel to the position of an arbitrary item among the selection items displayed on the touch panel or selecting an arbitrary item from the selection items conducted by the

operation in said input operation part;

a control switch which is rotatable in a certain range of angle and can be pushed in;

a selection item determining means for selecting an arbitrary item from the selection items displayed on the touch panel by the control switch turning operation and determining said selected item by the control switch pushing operation;

a judging means for judging which of said the touch operation to said display part or said control switch operation is done; and

an execution control means which carries out, when said judging means judges that the touch operation is done to the touch panel, the execution of various functions and various setting in accordance with an arbitrary selection item on the touch panel and which carries out, when said judging means judges that the operation of said control switch is done, only the execution of various functions in accordance with an arbitrary selection item selected by the operation of the control switch.

17. A page transition control program for operation in the personal digital assistant, comprises:

a judging step for judging whether a control switch is rotated in a certain range of angle and is pushed in or an operation page displayed on a display where a variety of operation pages is selected by touched;

a first page transition control step for performing a first page transition control by which said operation page displayed on said display is transitioned in accordance with said touch operation when it is judged that said display is touched;

and

a second page transition control step for performing a second page transition control by which said operation page displayed on said display is transitioned in accordance with said control switch operation when it is judged that said control switch is operated.